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Key Features

- Precision circuits engineered for the PS10-R2/LS600 systems permit increased sound pressure and operational reliability.
- Servo-controlled VCEQs provide precise dynamic control without spectral imbalance.
- Two inputs and three outputs enable a single PS10 TDController-R2 to manage multiple PS10-R2 and LS600 products.
- Comprehensive indicators and controls.

The PS10 TDController-R2 is an advanced analogue processor that allows the PS10-R2 Loudspeaker and optional LS600 Subwoofer to achieve exceptional performance from such compact packages. The PS10 TDController-R2 provides crossover, sensed amplifier control and system equalisation optimised for the PS10-R2 and LS600. One PS10 TDController-R2 has two inputs and three outputs, L, R and summed sub out, minimising installation cost and complexity.

Like all NEXO processors, the PS10 TDController-R2 provides precision dynamic, voice coil temperature and diaphragm displacement protection through the use of selective Voltage Controlled Equalisers (VCEQs), reducing levels only at frequencies when and where necessary.

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NEXO is one of the world's leading sound reinforcement loudspeaker manufacturers. Founded in 1979, the company is dedicated to crafting practical solutions with solid engineering. Each new design begins with a proprietary sophisticated computer simulation process that allows every parameter to be extensively modeled and simulated, leading to breakthrough cost and performance gains. NEXO's comprehensive product line includes loudspeakers, analogue and digital control electronics and amplification; all designed to deliver consistent sound quality and long term reliability for a broad range of applications.

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PS10 TDCONTROLLER-R2 PRODUCT FEATURES

Audio Inputs	Two L&R Audio inputs. Electronically balanced, 50kOhm. Two XLR-3F connectors.
Sense Inputs	Three Amplifier Sense Inputs (PS10-R2 L&R, LS600. 150 kOhm. 6 Pole Removable Strip Terminal. Passive Mode, PS15-R2 L&R, RS15. Active Mode, PS15-2 LF and HF, RS15.
Audio Outputs	Two L&R PS10-R2 audio outputs. Electronically balanced, 50 Ohm. Two XLR-3M. One mono (L+R) LS600 audio output. Electronically balanced, 50 Ohm. One XLR-3M.
Controls	Std/Max Protection Trimmer. Gain switch (back panel), 3 positions for Amps with Gain : 26 / 32 / 38 dB. Sub On switch & Sub Gain Control.
Indicators	Speaker Protect LEDs. Amp Sense & Peak LEDs.
Dimensions	1U 19" Rack. 190mm (7.5") Depth.
Weight	2.9kg (6.6 lbs) net.

SYSTEM SPECIFICATIONS PS10 TDCONTROLLER-R2

Input Level	+28dBm max into 600 Ohms.
Output Level	+20dBm Max. +19dBm Max on 1kOhm.
Noise	-88 dBm (22 Hz - 22 kHz, UnWeighted).
THD+N	< 0.03% Typ. 0.05 Max for +18dBm Output.
Power Supply	110/220 Volts (internal wiring), 50/60Hz. Earth-Lift (back panel).

SYSTEM OPERATION

Applicable Products	The PS10 TDController-R2 is precisely matched to the PS10-R2 & RS15 cabinets and includes sophisticated protection systems. Use of either product without a properly-connected Controller will result in poor sound quality and may damage the components.
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SHIPPING & ORDERING

Packaging	PS10 TDController-R2 is packaged as a single product.
Shipping Weight & Volume	4 kg (8.8 lbs) / 0.011 cubic metres.

As part of a policy of continual improvement, NEXO reserves the right to change specifications without notice. E&OE September 2009.

Architectural and Engineering Specifications

The 1RU PS10 TDController-R2 shall configure from a combination of two inputs and three outputs with each output providing crossover, parametric EQ, and mid-filter limiters for NEXO PS10 R2 products. The device shall have electronically balanced analogue inputs and outputs. All crossover, protection parameters, and EQ are factory optimized and not user-accessible. The controller must model loudspeaker temperature and displacement in real time. Protection shall be frequency selective and not allow PS10 R2 loudspeakers to exceed speaker-dependent thresholds.

The controller shall have three inputs providing feedback from amplifier output to allow real-time, real voltage protection. Maximum input shall be 22dBu with CMRR 70dB@1kHz and THD+N of 0.05% (max) at +18dBm Output. A 3-position, rear panel gain control shall switch between 38/32/26dB amplification gain, and the Output Section shall respectively display +22/+16/+10dBm into a 600W load. LEDs shall indicate status for; Power ON (green), Amp Sense & Peak (green/Red), Temperature & Displacement (yellow) and LS600 (VLF) displacement protection (also yellow). The chassis shall be constructed of steel with a black paint finish. Input power shall be 110-220VAC, 50-60Hz with a rear panel earth-lift. The 1RU device shall weigh 2.9kg (6.6lbs), with exterior dimensions of 483mm (19in) W, 44mm (1.75in) H and 190mm (7.5in) D. The controller shall be the NEXO PS10 TDController-R2.

LIMITED WARRANTY

NEXO loudspeakers and electronics are covered against defects in workmanship or materials for a period of two (2) years from the original date of purchase. At the option of NEXO the defective item will be repaired/replaced with no charge for materials/labour. The item is to be adequately packaged and dispatched, pre-paid, to a NEXO authorised distributor/service centre. Unauthorised repair shall void the warranty. The NEXO warranty does not cover cosmetics or finish and does not apply to any items which in NEXO's opinion have failed due to used abuse, accidents, modifications or any type of misuse. All images and text herein are the property of NEXO SA, and deemed accurate, although specifications are subject to change without notice.